

**WHAT IS CLAIMED IS:**

1. An engine operated generator having a converter composed of a semiconductor rectifying element for rectifying the output current of a generator driven by an engine and an inverter for converting a direct current received from the converter into an alternating current at a desired frequency, comprising:

a semiconductor rectifying element driving circuit for controlling the conduction of the semiconductor rectifying element to adjust the output voltage of the converter to a target level;

a conduction rate detecting means for detecting the rate of conduction of the semiconductor rectifying element;

an engine revolution controlling means for controlling the number of revolutions of the engine so that the rate of conduction detected by the conduction rate detecting means is converged at a target rate; and

a modifying means for modifying the target rate in response to the temperature of the generator.

2. An engine operated generator according to claim 1, wherein the modifying means is arranged for increasing the target rate when the temperature of the generator is lower than a reference temperature and decreasing the target rate

when the temperature of the generator is higher than the reference temperature.

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3. An engine operated generator according to claim 1 or 2, wherein the temperature of the generator is represented by the temperature of a power controlling element provided in the inverter.

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4. An engine operated generator according to claim 1 or 2, wherein the temperature of the generator is represented by the temperature of a power controlling element provided in the converter.

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5. An engine operated generator according to claim 1, wherein the rate of conduction is an conduction angle of the semiconductor rectifying element and its target degree is hence a target degree of conduction.

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6. An engine operated generator according to claim 2, wherein the rate of conduction is an conduction angle of the semiconductor rectifying element and its target degree

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is hence a target degree of conduction.

7. An engine operated generator according to claim 3,  
5 wherein the rate of conduction is an conduction angle of  
the semiconductor rectifying element and its target degree  
is hence a target degree of conduction.

10 8. An engine operated generator according to claim 4,  
wherein the rate of conduction is an conduction angle of  
the semiconductor rectifying element and its target degree  
is hence a target degree of conduction.

15 9. An engine operated generator according to claim 1,  
wherein the generator is a magnet generator.

20 10. An engine operated generator according to claim  
2, wherein the generator is a magnet generator.